Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-03-02** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/102/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 70%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.45	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-09-03-02** **Date: 11-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-18

Sample ID No : 2018-09-03-02 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 04-09-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-02** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/102/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	311	311	2.1	97.9	90-100
3	20 mm	7245	7556	50.4	49.6	30-70
4	10 mm	4144	11700	78.0	22.0	10-35
5	4.75 mm	3045	14745	98.3	1.7	0-5
6	Pan	255	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-02** **Date: 06-09-18**

Sample ID No : 2018-09-03-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	14.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.43	–
6	Water Absorption(%)	0.25	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-02** **Date: 05-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/102/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.8	96.2	90-100
3	10 mm	3041	3230	64.6	35.4	25-55
4	4.75 mm	1599	4829	96.6	3.4	0-10
5	Pan	171	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-02** **Date: 05-09-18**

Sample ID No : 2018-09-03-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.29	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2018-09-03-02 **Date: 05-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/102/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-18
Sample ID No	:	2018-09-03-02 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-09-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	13	13	1.3	98.7	90-100	90-100	90-100	95-100
3	2.36 mm	159	172	17.2	82.8	60-95	75-100	85-100	95-100
4	1.18 mm	172	344	34.4	65.6	30-70	55-90	75-100	90-100
5	600 micron	199	543	54.3	45.7	15-34	35-59	60-79	80-100
6	300 micron	205	748	74.8	25.2	5-20	8-30	12-40	15-50
7	150 micron	189	937	93.7	6.3	0-10	0-10	0-10	0-15
8	Pan	63	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Executive Engineer
Sub Division

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-09-03-02

Date: 05-09-18

Sample ID No : 2018-09-03-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.72	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : **CP-2018-09-03-02** **Date: 05-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-18

Sample ID No : 2018-09-03-02 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 04-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.395	539	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	552	683	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	571	692	19.5%	Satisfactory	Satisfactory

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-09-10-01 Date: 14/09/2018
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/102/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-09-10-01 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/09/2018	14/09/2018	151.02 X 150.63 X 149.51	22748	8.165	423.1	18.6	18.4
2	Drain Concrete	M20	07/09/2018	14/09/2018	151.42 X 151.42 X 151.52	22928	8.122	415.0	18.1	
3	Drain Concrete	M20	07/09/2018	14/09/2018	149.63 X 151.24 X 150.85	22630	8.145	420.9	18.6	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-09-10-01 Date: 14/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-01 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/09/2018	14/09/2018	150.24 X 150.65 X 150.32	22634	8.054	398.4	17.6	17.6
2	Drain Concrete	M20	07/09/2018	14/09/2018	150.44 X 150.45 X 150.98	22634	8.165	409.7	18.1	
3	Drain Concrete	M20	07/09/2018	14/09/2018	150.42 X 149.78 X 151.33	22530	8.126	387.5	17.2	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-09-10-01 Date: 14/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-01 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/09/2018	14/09/2018	151.63 X 150.44 X 151.24	22811	8.145	415.2	18.2	18.2
2	Drain Concrete	M20	07/09/2018	14/09/2018	150.48 X 149.58 X 150.22	22509	8.167	418.7	18.6	
3	Drain Concrete	M20	07/09/2018	14/09/2018	150.75 X 150.63 X 149.86	22707	8.159	406.5	17.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-09-10-01

Date: 14/09/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-18

Sample ID No : 2018-09-10-01 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	07/09/2018	14/09/2018	149.77 X 151.05 X 150.42	22623	8.201	418.5	18.5	18.1
2	Drain Concrete	M20	07/09/2018	14/09/2018	150.75 X 149.78 X 151.02	22579	8.165	388.4	17.2	
3	Drain Concrete	M20	07/09/2018	14/09/2018	151.63 X 150.77 X 149.85	22861	8.145	425.2	18.6	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-09-03-02 Date: 08-09-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kuvempu nagara area in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri. N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-18

Sample ID No : 2018-09-03-02 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 04/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.02	1.388	4474	83.5	18.7	17.4	21.7
2	Cover Slab-2	75.51	100.03	1.345	4477	81.6	18.2	16.9	21.2
3	Cover Slab-3	75.49	100.01	1.369	4475	82.5	18.4	17.1	21.4

Note:
The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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